



Reissue #1
03/10/11

Technical Report for

GEI Consultants, Inc.

Canton Airport Canton MA

09382-2

Accutest Job Number: M91579U

Sampling Date: 05/20/10

Report to:

GEI Consultants, Inc.

LLombardo@geiconsultants.com

ATTN: Leslie Lombardo

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.



September 16, 2010

Mr. Raymond Siegener, Ph.D.
GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801-1970

RE: Accutest Job M91579U (Revision 1)

Dear Mr. Siegener:

The final report for Accutest job number M91579U has been revised to include a case narrative description of the client-requested dilution of the sample M91579-62U.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Warren", with a long horizontal flourish extending to the right.

Mark Warren
Accutest Laboratories of New England, Inc.

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Case Narrative/Conformance Summary	5
Section 3: Sample Results	6
3.1: M91579-62U: 093822-HS-AF-5.5	7
Section 4: Misc. Forms	8
4.1: Certification Exceptions	9
4.2: Chain of Custody	10
4.3: MCP Form	20
4.4: Sample Tracking Chronicle	21
Section 5: GC Semi-volatiles - QC Data Summaries	22
5.1: Method Blank Summary	23
5.2: Blank Spike/Blank Spike Duplicate Summary	24
5.3: Surrogate Recovery Summaries	25



Sample Summary

GEI Consultants, Inc.

Job No: M91579U

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
M91579-62U	05/20/10	10:04	SSH	05/21/10	SO	Soil	093822-HS-AF-5.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc.

Job No M91579U

Site: Canton Airport Canton MA

Report Date 9/16/2010 1:40:10 PM

1 Sample was collected on 05/20/2010 and were received at Accutest on 05/21/2010 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of M91579U. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082

Matrix: SO

Batch ID: OP22635

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample M91579-62U was diluted with Ottawa sand prior to preparation and analysis. 130.28 grams (g) of sand was added to a 10.52 g aliquot of sample and homogenized thoroughly resulting in a dilution factor of 12.4.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91579U).

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID:	093822-HS-AF-5.5	Date Sampled:	05/20/10
Lab Sample ID:	M91579-62U	Date Received:	05/21/10
Matrix:	SO - Soil	Percent Solids:	88.3
Method:	SW846 8082 SW846 3545		
Project:	Canton Airport Canton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE21089.D	1	09/13/10	CZ	09/13/10	OP22635	GBE1318
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

MA Polychlorinated Biphenyls MCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	110	ug/kg	
11104-28-2	Aroclor 1221	ND	110	ug/kg	
11141-16-5	Aroclor 1232	ND	110	ug/kg	
53469-21-9	Aroclor 1242	ND	110	ug/kg	
12672-29-6	Aroclor 1248	ND	110	ug/kg	
11097-69-1	Aroclor 1254	ND	110	ug/kg	
11096-82-5	Aroclor 1260	562	110	ug/kg	
37324-23-5	Aroclor 1262	ND	110	ug/kg	
11100-14-4	Aroclor 1268	ND	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		30-150%
877-09-8	Tetrachloro-m-xylene	106%		30-150%
2051-24-3	Decachlorobiphenyl	109%		30-150%
2051-24-3	Decachlorobiphenyl	116%		30-150%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M91579U
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	SW846 8082	SO	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	SW846 8082	SO	Certified by SOP MGC204/GC-ECD

4.1
4

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579U

GEI



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Page 1 of 9

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegenger

Send EDD to: labdata@geiconsultants.com

Preservative

None

Analysis

MCP PRESUMPTIVE CERTAINTY REQUIRED - YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO NA

If Yes, Are Drinking Water Samples Submitted?

YES NO NA

If Yes, Have You Met Minimum Field QC Requirements?

YES NO NA

Sample Handling

Samples Field Filtered

YES NO NA

Sample Shipped With Ice

YES NO

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction											Sample Specific Remarks
		Date	Time															
-1	093822-HS-AF-6	5/26/10	0900	SO	1	SSH	X											HOLD/FREEZE
-2	093822-HS-AF-7		0901				X											
-3	093822-HS-AF-8		0902				X											
-4	093822-HS-AF-9		0903				X											
-5	093822-HS-AG-6		0904				X											
-6	093822-HS-AG-7		0905				X											
-7	093822-HS-AG-8		0906				X											HOLD/FREEZE
-8	093822-HS-AG-9		0907				X											
-9	093822-HS-AH-6		0909				X											HOLD/FREEZE
-10	093822-HS-AH-7		0910				X											
-11	093822-HS-AH-8		0911				X											

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Relinquished by: (signature)

Date:

Time:

Received by: (signature)

Turnaround Time

(Business days):

Normal ☒ Other ☐10-Day ☐ 7-Day ☐5-Day ☐ 3-Day ☐

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

13F

DCR RATES APPLY.

CAUTION - Potential elevated PCBs

2.5%

5/19/2010

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M91579U: Chain of Custody

Page 1 of 10

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579U



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Page 2 of 9

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegenger

Preservative

Send EDD to: labdata@geiconsultants.com

None

Sample Handling

Samples Field Filtered

YES ☐ NO ☐ NA

Sampled Shipped With Ice

YES ☐ NO ☐

MCP PRESUMPTIVE CERTAINTY REQUIRED

YES ☐ NO ☐

If Yes, Are MCP Analytical Methods Required?

YES ☐ NO ☐ NA

If Yes, Are Drinking Water Samples Submitted?

YES ☐ NO ☐ NA

If Yes, Have You Met Minimum Field QC Requirements?

YES ☐ NO ☐ NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction	Analysis										Sample Specific Remarks
		Date	Time															
-12	093822- HS-AH-9	5/20/10	0912	SO	1	SSH	x											HOLD/FREEZE
-13	093822- HS-AH-10		0913				x											
-14	093822- HS-AI-6		0914				x											
-15	093822- HS-AI-7		0915				x											
-16	093822- HS-AI-8		0916				x											HOLD/FREEZE
-17	093822- HS-AI-9		0917				x											
-18	093822- HS-AI-10		0918				x											HOLD/FREEZE
-19	093822- HS-AJ-6		0919				x											
-20	093822- HS-AJ-7		0920				x											
-21	093822- HS-AJ-8		0921				x											
-22	093822- HS-AJ-9		0922				x											
-23	093822- HS-AJ-10		0923				x											

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by: (signature)	Date:	Time:	Received by: (signature)
1. [Signature]	5/20/10	1530	1. GEI Sample Fridge
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
2. [Signature]	5/21/10	1235	2. [Signature]
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
3. [Signature]	5/21/10	1236	3. [Signature]
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4. [Signature]	5/21/10	1528	4. [Signature]

Turnaround Time (Business days):

Normal ☒ Other ☐
10-Day ☐ 7-Day ☐
5-Day ☐ 3-Day ☐

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

DCR RATES APPLY.

CAUTION - Potential elevated PCBs

5/19/2010

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M91579U: Chain of Custody

Page 2 of 10

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579 U

GEI



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Page 3 of 9

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegenger

Send EDD to: labdata@geiconsultants.com

Preservative

None

Analysis

MCP PRESUMPTIVE CERTAINTY REQUIRED - YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO NA

If Yes, Are Drinking Water Samples Submitted?

YES NO NA

If Yes, Have You Met Minimum Field QC Requirements?

YES NO NA

Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction	Sample Handling	Sample Specific Remarks
-24	093822-HS-AK-6	5/20/10	0924	SO	1	SSH	X	YES (NO) NA	
-25	093822-HS-AK-7		0925				X	YES (NO) NA	
-26	093822-HS-AK-8		0926				X	YES (NO) NA	HOLD/FREEZE
-27	093822-HS-AK-9		0927				X	YES (NO) NA	
-28	093822-HS-AK-10		0928				X	YES (NO) NA	HOLD/FREEZE
-29	093822-HS-AL-6		0929				X	YES (NO) NA	
-30	093822-HS-AL-7		0930				X	YES (NO) NA	
-31	093822-HS-AL-8		0931				X	YES (NO) NA	
-32	093822-HS-AL-9		0932				X	YES (NO) NA	
-33	093822-HS-AL-10		0933				X	YES (NO) NA	
-34	093822-HS-AM-8		0934				X	YES (NO) NA	
-35	093822-HS-AM-9		0935				X	YES (NO) NA	

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by (signature)	Date	Time	Received by (signature)
1. [Signature]	5/20/10	1530	1. GEI Sample Fridge
2. [Signature]	5/21/10	1235	2. [Signature]
3. [Signature]	5/21/10	1236	3. [Signature]
4. [Signature]	5/24/10	1626	4. [Signature]

Turnaround Time

(Business days):

Normal ☒ X Other ☐
10-Day ☐ 7-Day ☐
5-Day ☐ 3-Day ☐

Before submitting rush

turnaround samples, you must
notify the laboratory to confirm
that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

DCR RATES APPLY.

CAUTION - Potential elevated PCBs

5/19/2010

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M91579U: Chain of Custody

Page 3 of 10

4.2

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579 U



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Page 5 of 9

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegner

Send EDD to: labdata@geiconsultants.com

Preservative

None

Analysis

Sample Handling

Samples Field Filtered

YES ☐ NO ☐ NA ☐

Sampled Shipped With Ice

YES ☐ NO ☐

MCP PRESUMPTIVE CERTAINTY REQUIRED

YES ☐ NO ☐

If Yes, Are MCP Analytical Methods Required?

YES ☐ NO ☐ NA ☐

If Yes, Are Drinking Water Samples Submitted?

YES ☐ NO ☐ NA ☐

If Yes, Have You Met Minimum Field QC Requirements?

YES ☐ NO ☐ NA ☐

Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction	Analysis	Sample Specific Remarks
-48	093822-HS-AQ-10	5/20/10	0948	SO	1	SSH	X		HOLD/FREEZE
-49	093822-HS-AQ-8		0949				X		
-50	093822-HS-AR-9		0950				X		
-51	093822-HS-AR-10		0951				X		
-52	093822-HS-AS-8		0952				X		
-53	093822-HS-AS-9		0953				X		
-54	093822-HS-AS-10		0954				X		HOLD/FREEZE
-55	093822-HS-AT-8		0955				X		
-56	093822-HS-AT-9		0956				X		
-57	093822-HS-AT-10		0957				X		
-58	093822-HS-AE.5-6		0958				X		
-59	093822-HS-AE.5-7		1001				X		

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by: (signature)	Date	Time	Received by: (signature)
1. <i>[Signature]</i>	5/20/10	1530	1. GEI Fridge
2. <i>GEI Sample Fridge</i>	5/21/10	1235	2. <i>[Signature]</i>
3. <i>[Signature]</i>	5/21/10	1236	3. <i>will drill</i>
4. <i>will drill</i>	5/21/10	1525	4. <i>[Signature]</i>

Turnaround Time

(Business days):

Normal ☒ Other ☐
10-Day ☐ 7-Day ☐
5-Day ☐ 3-Day ☐

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

DCR RATES APPLY.

CAUTION - Potential elevated PCBs

5/19/2010

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M91579U: Chain of Custody

Page 5 of 10

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579U



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegener

Send EDD to: labdata@geiconsultants.com

Page 6 of 9

MCP PRESUMPTIVE CERTAINTY REQUIRED

YES NO

If Yes, Are MCP Analytical Methods Required?

YES NO NA

If Yes, Are Drinking Water Samples Submitted?

YES NO NA

If Yes, Have You Met Minimum Field QC Requirements?

YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction	Analysis										Sample Specific Remarks	
		Date	Time																
-60	093822-HS-AE.5-8	5/20/10	1003	SO	1	SSH	X												
-61	093822-HS-AE.5-9		1003				X												
-62	093822-HS-AF-5.5		1004				X												
-63	093822-HS-AG-5.5		1005				X												
-64	093822-HS-AH-5.5		1006				X												
-65	093822-HS-AI-5.5		1007				X												
-66	093822-HS-AJ-5.5		1008				X												
-67	093822-HS-AK-5.5		1009				X												
-68	093822-HS-AL-5.5		1010				X												
-69	093822-HS-AM-5.5		1011				X												
-70	093822-HS-AN-5.5		1012				X												
	093822-HS-AO-5.5		1013				X												
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MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by (signature)	Date	Time	Received by (signature)
1. [Signature]	5/20/10	1530	1. [Signature]
2. [Signature]	5/21/10	1235	2. [Signature]
3. [Signature]	5/21/10	1236	3. [Signature]
4. [Signature]	5/21/10	1525	4. [Signature]

Turnaround Time

(Business days):

Normal ☒ Other ☐
10-Day ☐ 7-Day ☐
5-Day ☐ 3-Day ☐

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

DCR RATES APPLY.

CAUTION - Potential elevated PCBs

5/19/2010

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M91579U: Chain of Custody

Page 6 of 10

Chain-of-Custody Record

Laboratory: Accutest

Laboratory Job #

(Lab use only)

M91579U



400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000
FX: 781.721.4073

Project Information

Project Name: Canton Airport

Project Location: Canton, MA

Project Number: 09382-2

Project Manager: Anne Leifer

Send Report to: Ray Siegner

Send EDD to: labdata@geiconsultants.com

Page 7 of 9

MCP PRESUMPTIVE CERTAINTY REQUIRED ☒ YES ☐ NO

If Yes, Are MCP Analytical Methods Required?

☒ YES ☐ NO ☐ NA

If Yes, Are Drinking Water Samples Submitted?

☒ YES ☐ NO ☐ NA

If Yes, Have You Met Minimum Field QC Requirements?

☒ YES ☐ NO ☐ NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	PCBs by extract											Sample Specific Remarks
		Date	Time															
-71	093822- HS-AT-5-9	5/20/16	1014	SO	1	SSH	X											
-72	093822- HS-AT-5-10		1015				X											
-73	093822- HS-AM-7.5		1016				X											
-74	093822- HS-AN-7.5		1017				X											
-75	093822- HS-AO-7.5		1018				X											
-76	093822- HS-AP-7.5		1019				X											
-77	093822- HS-AQ-7.5		1020				X											
-78	093822- HS-AR-7.5		1021				X											
-79	093822- HS-AS-7.5		1022				X											
-80	093822- HS-AT-7.5		1023				X											
-81	093822- HS-AH-10.5		1024				X											
-82	093822- HS-AI-10.5		1025				X											

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Relinquished by (signature)	Date:	Time:	Received by (signature)
1. <i>[Signature]</i>	5/20/10	1530	1. <i>Gei Fridge</i>
Relinquished by (signature)	Date:	Time:	Received by (signature)
2. <i>GEI Sample Base</i>	5/21/10	1235	2. <i>Tom Dorigo</i>
Relinquished by (signature)	Date:	Time:	Received by (signature)
3. <i>Tom Dorigo</i>	5/21/10	1236	3. <i>will dull</i>
Relinquished by (signature)	Date:	Time:	Received by (signature)
4. <i>will dull</i>	5/24/10	1525	4. <i>will dull</i>

Turnaround Time

(Business days):

Normal ☒ X Other ☐10-Day ☐ 7-Day ☐5-Day ☐ 3-Day ☐

Before submitting rush

turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

MANUAL SOXLET EXTRACTION REQUIRED.

PCR RATES APPLY.

CAUTION - Potential elevated PCBs

5/19/2010

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M91579U: Chain of Custody

Page 7 of 10

4.2

Kristen Blanchard

From: Mark Warren
Sent: Tuesday, August 31, 2010 2:42 PM
To: Kristen Blanchard
Subject: GEI Study projects

Hi Kristen,

Here is the breakdown:

The following need to be logged in for soxhlet extraction and 8082 analysis:

M91651-111T ("U" is next job)
 M91651-112T
 M91081-9R ("T" is next job)

All of these samples have been diluted with sand (by me) – so I've created a separate aliquot (this should go in the Comments field).

The following need to be logged in for PFE (ASE) extraction and 8082 analysis:

M91909-28R ("T" is next job) **AND...**

Logged in for soxhlet extraction and 8082 analysis (at a dilution by me).

The following needs to be logged in for PFE (ASE) extraction and 8082 analysis:

M91579-62T ("U" is next job).

This sample has been diluted by me.

The following needs to be logged in for soxhlet extraction and 8082 analysis:

M91081-7

I need to dilute this with sand.

Mark Warren
 Accutest Laboratories of NE
 Voice: 508.481.6200 Ext. 247
 Fax: 508.481.7753
markw@accutest.com

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9/1/2010

M91579U: Chain of Custody
Page 10 of 10



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Page 13 of 38

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: Accutest Laboratories of New England

Project #: M91579U

Project Location: Canton Airport Canton MA

MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
M91579-62U

Matrices: Groundwater/Surface Water () Soil/Sediment (X) Drinking Water () Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB (X) CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.				
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Reza Tand

Position: Laboratory Director

Printed Name: Reza Tand

Date: 09/14/2010

Internal Sample Tracking Chronicle

GEI Consultants, Inc.

Job No: M91579U

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91579-62U Collected: 20-MAY-10 10:04 By: SSH Received: 21-MAY-10 By: JB 093822-HS-AF-5.5						
M91579-62USW846 8082		13-SEP-10 22:39	CZ	13-SEP-10	BJ	P8082MCP

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M91579U
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22635-MB	BE21086.D	1	09/13/10	CZ	09/13/10	OP22635	GBE1318

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-62U

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	98	ug/kg	
11104-28-2	Aroclor 1221	ND	98	ug/kg	
11141-16-5	Aroclor 1232	ND	98	ug/kg	
53469-21-9	Aroclor 1242	ND	98	ug/kg	
12672-29-6	Aroclor 1248	ND	98	ug/kg	
11097-69-1	Aroclor 1254	ND	98	ug/kg	
11096-82-5	Aroclor 1260	ND	98	ug/kg	
37324-23-5	Aroclor 1262	ND	98	ug/kg	
11100-14-4	Aroclor 1268	ND	98	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	112% 30-150%
877-09-8	Tetrachloro-m-xylene	114% 30-150%
2051-24-3	Decachlorobiphenyl	113% 30-150%
2051-24-3	Decachlorobiphenyl	121% 30-150%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M91579U
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22635-BS	BE21087.D	1	09/13/10	CZ	09/13/10	OP22635	GBE1318
OP22635-BSD	BE21088.D	1	09/13/10	CZ	09/13/10	OP22635	GBE1318

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-62U

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	258	265	103	280	106	6	40-140/30
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/30
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/30
11096-82-5	Aroclor 1260	258	313	121	296	112	6	40-140/30
37324-23-5	Aroclor 1262		ND		ND		nc	40-140/30
11100-14-4	Aroclor 1268		ND		ND		nc	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	101%	107%	30-150%
877-09-8	Tetrachloro-m-xylene	112%	111%	30-150%
2051-24-3	Decachlorobiphenyl	116%	106%	30-150%
2051-24-3	Decachlorobiphenyl	124%	114%	30-150%

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M91579U

Account: GEI GEI Consultants, Inc.

Project: Canton Airport Canton MA

Method: SW846 8082

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
M91579-62U	BE21089.D	102.0	106.0	109.0	116.0
OP22635-BS	BE21087.D	101.0	112.0	116.0	124.0
OP22635-BSD	BE21088.D	107.0	111.0	106.0	114.0
OP22635-MB	BE21086.D	112.0	114.0	113.0	121.0

Surrogate Compounds	Recovery Limits
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S1 = Tetrachloro-m-xylene	30-150%
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S2 = Decachlorobiphenyl	30-150%
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(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

5.3.1

5